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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/509,867	10/01/2004	Nahoko Takano	Q83996	9778
23373 7590 10/10/2008 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037			EXAMINER BRANDT, CHRISTOPHER M	
			ART UNIT 2617	PAPER NUMBER
			MAIL DATE 10/10/2008	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/509,867

**Applicant(s)**

TAKANO ET AL.

**Examiner**

CHRISTOPHER M. BRANDT

**Art Unit**

2617

**Period for Reply** -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 30 June 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 70-75 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 70-75 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 June 2008 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-8508)
- Paper No(s)/Mail Date \_\_\_\_\_

- 4) ☐ Interview Summary (PTO-413)
- Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

***Response to Amendment***

This Action is in response to applicant's amendment filed on June 30, 2008. **Claims 70-75** are now currently pending in the present application. **This Action is made FINAL.**

***Response to Arguments***

Applicant's arguments filed June 30, 2008 have been fully considered but they are not persuasive.

With regard to applicant's argument that Chang and Willenegger disclose a method for controlling uplink transmission control power in a handover region by UE and fail to teach or suggest controlling downlink transmission control power in a handover region by UE, the examiner respectfully disagrees. Chang explicitly states that the UE receives downlink channel signals from two or more cells, measures power levels of the received downlink channel signals, and transmits a TPC bit having a corresponding bit value to the cells through the radio links (column 1 lines 63-67, column 2 lines 14-18). Therefore, Chang is clearly teaching the controlling of downlink channels.

As a result, the claims are written such that they read upon the cited references.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

**Claims 70-75** are rejected under 35 USC 103(a) as being unpatentable over **Chang et al.** (US Patent 7,010,318 B2, hereinafter **Chang**) in view of **Willenegger** (US PGPUB 2002/0009061 A1).

Consider **claim 70 (and similarly applied to claims 72 and 74)**. Chang discloses a cellular system comprising a mobile station and a plurality of base stations that are in a handover state with said mobile station and that set uplink and downlink dedicated channels with said mobile station, one of said base stations, as a packet transmission base station, performing transmission of a packet to said mobile station by the use of a shared channel (column 1 line 41 – column 2 line 3, column 3 lines 54-57, read as the power-up/down commands are transmitted

using a TPC (Transmission Power Control) bit in a dedicated physical control channel (DPCCH) of a dedicated physical channel (DPCH) established between the transmitter and receiver, where this procedure can take place during a user equipment being located in a soft handover (SHO) region. This procedure occurs by creating a TPC bit considering states of the downlink channel signals received from two or more cells in order to control uplink transmission power), characterized in that: said mobile station comprises:

means for controlling a transmission power control signal included in the downlink dedicated channel sent only from the packet transmission base station, by controlling a transmission power of a signal received through the downlink dedicated channel (column 1 lines 63-67, column 2 lines 14-18, read as the UE receives downlink channel signals from two or more cells, measures power levels of the received downlink channel signals, and transmits a TPC bit having a corresponding bit value to the cells through the radio links).

Chang substantially discloses the claimed invention but fails to explicitly teach controllably changing a target reception quality (Chang discloses controllably changing a transmission power).

However, Willenegger discloses controllably changing a target reception quality (paragraph 47, read as the base station is able to determine the target SNR and is able to scale the transmit power for these channels accordingly to achieve the target SNR (paragraph 47)).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have incorporated the teachings of Willenegger into the invention of

Chang in order to maintain the signal quality of a transmission received at the user terminal as close as possible to a target signal-to-noise-plus interference ratio (paragraph 40).

Consider **claim 71 (and similarly applied to claims 73 and 75)**. Chang and Willenegger disclose wherein the mobile station further comprises: means for producing the transmission power control signal for controlling transmission power of the downlink dedicated channel on the basis of the target SIR to transmit the transmission power control signal to the packet transmission base station through the uplink dedicated channel (Chang; column 1 lines 63-67, column 2 lines 14-18, Willenegger: paragraph 47).

### **Conclusion**

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any response to this Office Action should be **faxed to (571) 273-8300 or mailed to:**

Commissioner for Patents  
P.O. Box 1450

Alexandria, VA 22313-1450

**Hand-delivered responses** should be brought to

Customer Service Window  
Randolph Building  
401 Dulany Street

Alexandria, VA 22314

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher M. Brandt whose telephone number is (571) 270-1098.

The examiner can normally be reached on 7:30a.m. to 5p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on (571) 272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/customer service whose telephone number is (571) 272-2600.

Christopher M. Brandt

C.M.B./cmb

October 6, 2008

/George Eng/

Supervisory Patent Examiner, Art Unit 2617